

Serial No. 10/789,962
60246-340

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) An indoor air quality module comprising:
an outer compartment attachable to a component, and the outer compartment includes a switch;
an inner compartment having an inlet, an outlet, an ultraviolet light source, and a filtering device located between the inlet and the outlet; and
a controller for the ultraviolet light source, and the controller is configured to activate ~~activates~~ the ultraviolet light source when the switch detects the filtering device.
2. (Currently Amended) The module as recited in claim 1 wherein the filter device is a monolith, and a photocatalytic coating is applied on the monolith, and the ultraviolet light source is configured to activate ~~activates~~ the photocatalytic coating
3. (Currently Amended) The module as recited in claim 2 wherein the monolith defines a first monolith, a second monolith, and the ultraviolet light source is located between the first monolith and the second monolith, and the switch comprises a first switch and a second switch, and the controller is configured to activate ~~activates~~ the ultraviolet light source when the first switch detects the first monolith and the second switch detects the second monolith.
4. (Currently Amended) The module as recited in claim 1 wherein the filter device is a particle filter, and the controller is configured to activate ~~activates~~ the ultraviolet light source when the switch detects the particle filter.
5. (Original) The module as recited in claim 1 wherein the inner compartment includes a first end and an opposing second end, and the first end is pivotally attached to the outer compartment and pivotal between a first position and a second position.

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6. (Original) The module as recited in claim 5 wherein the switch is proximate to the first end of the inner compartment.
7. (Original) The module as recited in claim 6 wherein the filter device disengages from the switch when the inner compartment is in the second position, and the controller deactivates the ultraviolet light source.
8. (Original) The module as recited in claim 7 wherein the inner compartment is substantially parallel to the outer compartment in the first position and the inner compartment is substantially perpendicular to the outer compartment in the second position.
9. (Original) The module as recited in claim 1 wherein the switch does not engage the filter device when the filter device is incorrectly installed.
10. (Original) The module as recited in claim 1 wherein the photocatalytic coating is titanium dioxide.
11. (Original) The module as recited in claim 1 wherein the monolith is a honeycomb having a plurality of hexagonal shaped passages.
12. (Currently Amended) An indoor air quality module comprising:
 - an outer compartment attachable to a component, and the outer compartment includes a first monolith switch, a second monolith switch, and a filter switch;
 - an inner compartment having an inlet, an outlet, a first monolith located between the inlet and the outlet having a photocatalytic coating, a second monolith located between the inlet and the outlet having the photocatalytic coating, a particle filter, and an ultraviolet light source located between the first monolith and the second monolith to activate the photocatalytic coating; and
 - a controller for the ultraviolet light source, and the controller ~~activates~~ is configured to activate the ultraviolet light source when the first monolith detects the first monolith, the second monolith switch detects the second monolith and filter switch detects the particle filter.

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13. (Currently Amended) The module as recited in claim 12 wherein the inner compartment includes a first end and an opposing second end, and the first end of the inner compartment is pivotally attached to the outer compartment and is ~~pivotal~~pivotal between a first position and a second position.

14. (Original) The module as recited in claim 13 wherein the first monolith switch disengages from the first monolith, the second monolith switch disengages from the second monolith and the filter switch disengages from the particle filter when the inner compartment is in the second position, and the controller deactivates the ultraviolet light source.

15. (Original) A method of purifying air comprising the steps of:
flowing air through a filtering device;
sensing the filtering device;
illuminating an ultraviolet light source if the step of sensing detects the filtering device;
and
deactivating the ultraviolet light source if the step of sensing does not detect the filtering device.

16. (Original) The method as recited in claim 15 wherein the filtering device is a monolith having a titanium dioxide coating, and the step of illuminating activates the titanium dioxide coating.

17. (Original) The method as recited in claim 15 wherein the filtering device is a particle filter.

18. (New) The module as recited in claim 1 wherein the inner compartment houses a particle filter.

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19. (New) The module as recited in claim 1, wherein the switch includes a body portion, an electrical connector configured to communicate with a cable clamp, and a finger having a sensing pad, the sensing pad configured to detect the filtering device in response to the filtering device contacting the sensing pad.

20. (New) The module as recited in claim 12 wherein each of the first monolith switch, the second monolith switch and the filter switch include a body portion, an electrical connector configured to communicate with a cable clamp, and a finger having a sensing pad, and each of the sensing pads configured to detect one of the first monolith, the second monolith and the particle filter in response to each of the first monolith, the second monolith and the particle filter contacting one of the sensing pads.

21. (New) The module as recited in claim 1 wherein the inner compartment is pivotal between an open position and a closed position, and the switch detects the filtering device in response to the inner compartment being positioned at the closed position.

22. (New) The module as recited in claim 12 wherein the inner compartment is pivotal between an open position and a closed position, and the first monolith switch detects the first monolith, the second monolith switch detects the second monolith and the filter switch detects the particle filter in response to the inner compartment being positioned at the closed position.